Sonil Nanda

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 4,975 40 124 h-index g-index citations papers 6,619 6.9 5.9 133 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
124	Pelletization of torrefied canola residue: Effects of microwave power, residence time and bio-additives on fuel pellet quality. <i>Fuel</i> , 2022 , 312, 122728	7.1	3
123	Thermochemical conversion of organic waste: New horizons for production of green energy 2022 , 1-21		0
122	Pyrolytic valorization of an invasive crop (Phragmites) to high-value biofuels and bioproducts 2022 , 89-	115	
121	A review of thermocatalytic conversion of biogenic wastes into crude biofuels and biochemical precursors. <i>Fuel</i> , 2022 , 320, 123857	7.1	4
120	Process optimization and investigating the effects of torrefaction and pelletization on steam gasification of canola residue. <i>Fuel</i> , 2022 , 323, 124239	7.1	O
119	A techno-economic assessment of biomethane and bioethanol production from crude glycerol through integrated hydrothermal gasification, syngas fermentation and biomethanation. <i>Energy Conversion and Management: X</i> , 2021 , 12, 100131	2.5	1
118	Comparative study on fuel characteristics and pyrolysis kinetics of corn residue-based hydrochar produced via microwave hydrothermal carbonization. <i>Chemosphere</i> , 2021 , 132787	8.4	3
117	Innovations in applications and prospects of bioplastics and biopolymers: a review. <i>Environmental Chemistry Letters</i> , 2021 , 1-17	13.3	13
116	Cannabis: Chemistry, extraction and therapeutic applications. <i>Chemosphere</i> , 2021 , 289, 133012	8.4	12
115	Isolation of cellulose fibers from wetland reed grass through an integrated subcritical water hydrolysis-pulping-bleaching process. <i>Fuel</i> , 2021 , 311, 122618	7.1	4
114	Steam and supercritical water gasification of densified canola meal fuel pellets. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	2
113	Hydrothermal flames for subaquatic, terrestrial and extraterrestrial applications. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127520	12.8	О
112	Hydrodeoxygenation of oleic acid using EAl2O3 supported transition metallic catalyst systems: Insight into the development of novel FeCu/EAl2O3 catalyst. <i>Molecular Catalysis</i> , 2021 , 111526	3.3	3
111	A Review of Torrefaction Technology for Upgrading Lignocellulosic Biomass to Solid Biofuels. <i>Bioenergy Research</i> , 2021 , 14, 645-669	3.1	32
110	Next-generation biofuels and platform biochemicals from lignocellulosic biomass. <i>International Journal of Energy Research</i> , 2021 , 45, 14145-14169	4.5	26
109	Catalytic Supercritical Water Gasification of Soybean Straw: Effects of Catalyst Supports and Promoters. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 5770-5782	3.9	14
108	Chemistry and Specialty Industrial Applications of Lignocellulosic Biomass. <i>Waste and Biomass Valorization</i> , 2021 , 12, 2145-2169	3.2	50

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107	Thermochemical conversion of plastic waste to fuels: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 123-148	13.3	68
106	Municipal solid waste management and landfilling technologies: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1433-1456	13.3	101
105	A technical review of bioenergy and resource recovery from municipal solid waste. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123970	12.8	72
104	Artificial neural network modeling of cefixime photodegradation by synthesized CoBiO nanoparticles. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 15436-15452	5.1	23
103	MetalBrganic framework-based functional catalytic materials for biodiesel production: a review. <i>Green Chemistry</i> , 2021 , 23, 2595-2618	10	15
102	Catalytic and Noncatalytic Upgrading of Bio-Oil to Synthetic Fuels: An Introductory Review. <i>ACS Symposium Series</i> , 2021 , 1-28	0.4	1
101	Subcritical water hydrolysis of Phragmites for sugar extraction and catalytic conversion to platform chemicals. <i>Biomass and Bioenergy</i> , 2021 , 145, 105965	5.3	14
100	Futuristic applications of hydrogen in energy, biorefining, aerospace, pharmaceuticals and metallurgy. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 8885-8905	6.7	37
99	Biochar production, activation and adsorptive applications: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2237-2259	13.3	27
98	Techno-economic evaluation and sensitivity analysis of a conceptual design for supercritical water gasification of soybean straw to produce hydrogen. <i>Bioresource Technology</i> , 2021 , 331, 125005	11	13
97	Modeling and process optimization of hydrothermal gasification for hydrogen production: A comprehensive review. <i>Journal of Supercritical Fluids</i> , 2021 , 173, 105199	4.2	23
96	Hydrochar: A Review on Its Production Technologies and Applications. <i>Catalysts</i> , 2021 , 11, 939	4	18
95	Optimization studies for hydrothermal gasification of partially burnt wood from forest fires for hydrogen-rich syngas production using Taguchi experimental design. <i>Environmental Pollution</i> , 2021 , 283, 117040	9.3	5
94	Catalytic hydrothermal co-gasification of canola meal and low-density polyethylene using mixed metal oxides for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	6
93	Application of biomass derived products in mid-size automotive industries: A review. <i>Chemosphere</i> , 2021 , 280, 130723	8.4	11
92	Hydrothermal pretreatment technologies for lignocellulosic biomass: A review of steam explosion and subcritical water hydrolysis. <i>Chemosphere</i> , 2021 , 284, 131372	8.4	42
91	Slow pyrolysis of agro-food wastes and physicochemical characterization of biofuel products. <i>Chemosphere</i> , 2021 , 285, 131431	8.4	16
90	Taguchi-based process optimization for activation of agro-food waste biochar and performance test for dye adsorption. <i>Chemosphere</i> , 2021 , 285, 131531	8.4	19

89	Hydroprocessing of oleic acid for the production of aviation turbine fuel range hydrocarbons over bimetallic Fe-Cu/SiO2-Al2O3 catalysts promoted by Sn, Ti and Zr. <i>Molecular Catalysis</i> , 2021 , 111358	3.3	1
88	Subcritical and Supercritical Water Treatments for Bio-Oil Production and Upgrading. <i>ACS Symposium Series</i> , 2021 , 69-87	0.4	
87	Photocatalytic reforming for a sustainable hydrogen production over titania-based photocatalysts 2020 , 191-213		
86	Recent Applications of Advanced Atomic Force Microscopy in Polymer Science: A Review. <i>Polymers</i> , 2020 , 12,	4.5	28
85	Catalytic gasification of light and heavy gas oils in supercritical water. <i>Journal of the Energy Institute</i> , 2020 , 93, 2025-2032	5.7	15
84	BiVO4 photocatalysis design and applications to oxygen production and degradation of organic compounds: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1779-1801	13.3	24
83	Optimization, equilibrium, adsorption behavior and role of surface functional groups on graphene oxide-based nanocomposite towards diclofenac drug. <i>Journal of Environmental Sciences</i> , 2020 , 93, 137-	1804	41
82	Hydrothermal gasification of soybean straw and flax straw for hydrogen-rich syngas production: Experimental and thermodynamic modeling. <i>Energy Conversion and Management</i> , 2020 , 208, 112545	10.6	40
81	La-doped cobalt supported on mesoporous alumina catalysts for improved methane dry reforming and coke mitigation. <i>Journal of the Energy Institute</i> , 2020 , 93, 1571-1580	5.7	16
80	Biohydrogen Production Through Dark Fermentation. <i>Chemical Engineering and Technology</i> , 2020 , 43, 601-612	2	52
79	Subcritical water gasification of lignocellulosic wastes for hydrogen production with Co modified Ni/Al2O3 catalysts. <i>Journal of Supercritical Fluids</i> , 2020 , 162, 104863	4.2	19
78	Hydrogen: fuel of the near future 2020 , 1-20		3
77	Opportunities for Biodiesel Compatibility as a Modern Combustion Engine Fuel 2020 , 457-476		О
76	Eco-friendly Transformation of Waste Biomass to Biofuels. <i>Current Biochemical Engineering</i> , 2020 , 6, 120-134	2	17
75	Conversion of Carbon Dioxide into Formaldehyde. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 159-183	0.8	1
74	Recent progress in ethanol steam reforming for hydrogen generation 2020 , 57-80		
73	Bioconversion of Waste Biomass to Biobutanol 2020 , 35-44		
72	Perspectives on Microbial Fuel Cells 2020 , 75-84		

71 Bioconversion of Waste Biomass to Biomethanol **2020**, 45-52

70	Recent Advances in Steam Reforming of Glycerol for Syngas Production 2020 , 399-425		7
69	Current Advancements in Microbial Fuel Cell Technologies 2020, 477-494		7
68	A Spotlight on Butanol and Propanol as Next-Generation Synthetic Fuels 2020 , 105-126		4
67	Technological Advancements in the Production and Application of Biomethanol 2020 , 127-139		7
66	A Review of Thermochemical and Biochemical Conversion of Miscanthus to Biofuels 2020 , 195-220		10
65	Ethanol CO2 reforming on La2O3 and CeO2-promoted Cu/Al2O3 catalysts for enhanced hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18398-18410	6.7	13
64	A review on subcritical and supercritical water gasification of biogenic, polymeric and petroleum wastes to hydrogen-rich synthesis gas. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 119, 109546	16.2	93
63	Enhanced fuel characteristics and physical chemistry of microwave hydrochar for sustainable fuel pellet production via co-densification. <i>Environmental Research</i> , 2020 , 186, 109480	7.9	11
62	Improvements in hydrogen production from methane dry reforming on filament-shaped mesoporous alumina-supported cobalt nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2020 , 46, 24781-24781	6.7	6
61	Preface to the Special Issue on Heterogeneous Photocatalysts: From Fundamentals to Innovative Applications ITopics in Catalysis, 2020 , 63, 955-955	2.3	
60	Graphene Oxide-Induced Interfacial Transcrystallization of Single-Fiber Milkweed/Polycaprolactone/Polyvinylchloride Composites. <i>ACS Omega</i> , 2020 , 5, 22430-22439	3.9	2
59	Optimization and modeling of process parameters during hydrothermal gasification of biomass model compounds to generate hydrogen-rich gas products. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18275-18288	6.7	50
58	Catalytic subcritical and supercritical water gasification as a resource recovery approach from waste tires for hydrogen-rich syngas production. <i>Journal of Supercritical Fluids</i> , 2019 , 154, 104627	4.2	23
57	Supercritical water gasification of biomass: a state-of-the-art review of process parameters, reaction mechanisms and catalysis. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 578-598	5.8	132
56	Recent progress in the preparation, properties and applications of superhydrophobic nano-based coatings and surfaces: A review. <i>Progress in Organic Coatings</i> , 2019 , 132, 235-256	4.8	164
55	Impacts of oxidant characteristics on the ignition of n-propanol-air hydrothermal flames in supercritical water. <i>Combustion and Flame</i> , 2019 , 203, 46-55	5.3	13
54	Comparative evaluation for catalytic gasification of petroleum coke and asphaltene in subcritical and supercritical water. <i>Journal of Energy Chemistry</i> , 2019 , 31, 107-118	12	32

53	Effects of bio-additives on the physicochemical properties and mechanical behavior of canola hull fuel pellets. <i>Renewable Energy</i> , 2019 , 132, 296-307	8.1	38
52	Microwave-assisted hydrothermal carbonization of corn stalk for solid biofuel production: Optimization of process parameters and characterization of hydrochar. <i>Energy</i> , 2019 , 186, 115795	7.9	61
51	Application of Fe-based metal-organic framework and its pyrolysis products for sulfonamide treatment. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28106-28126	5.1	19
50	Cultivation and Conversion of Algae for Wastewater Treatment and Biofuel Production 2019 , 159-175		6
49	Recent Advances in Consolidated Bioprocessing for Microbe-Assisted Biofuel Production 2019 , 141-157		10
48	Physico-chemistry of biochars produced through steam gasification and hydro-thermal gasification of canola hull and canola meal pellets. <i>Biomass and Bioenergy</i> , 2019 , 120, 458-470	5.3	39
47	Hydrothermal catalytic processing of waste cooking oil for hydrogen-rich syngas production. <i>Chemical Engineering Science</i> , 2019 , 195, 935-945	4.4	83
46	Advanced synthesis strategies of mesoporous SBA-15 supported catalysts for catalytic reforming applications: A state-of-the-art review. <i>Applied Catalysis A: General</i> , 2018 , 559, 57-74	5.1	145
45	Investigating the applicability of Athabasca bitumen as a feedstock for hydrogen production through catalytic supercritical water gasification. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 182-189	6.8	36
44	Catalytic gasification of wheat straw in hot compressed (subcritical and supercritical) water for hydrogen production. <i>Energy Science and Engineering</i> , 2018 , 6, 448-459	3.4	44
43	An appraisal on biochar functionality and utility in agronomy 2018 , 389-410		5
42	CHAPTER 19:Hydrothermal Events Occurring During Gasification in Supercritical Water. <i>RSC Green Chemistry</i> , 2018 , 560-587	0.9	3
41	Recent Developments and Challenges of Acetone-Butanol-Ethanol Fermentation 2018, 111-123		9
40	A Broad Introduction to First-, Second-, and Third-Generation Biofuels 2018 , 1-25		14
39	Applications of Supercritical Fluids for Biodiesel Production 2018 , 261-284		7
38	Densification of Agricultural Wastes and Forest Residues: A Review on Influential Parameters and Treatments 2018 , 27-51		6
37	Fermentative production of butanol: Perspectives on synthetic biology. <i>New Biotechnology</i> , 2017 , 37, 210-221	6.4	82
36	PDMS/camphor soot composite coating: towards a self-healing and a self-cleaning superhydrophobic surface. <i>RSC Advances</i> , 2017 , 7, 15027-15040	3.7	33

35	Lewis acid catalyzed gasification of humic acid in supercritical water. <i>Catalysis Today</i> , 2017 , 291, 13-23	5.3	38
34	Insights on pathways for hydrogen generation from ethanol. Sustainable Energy and Fuels, 2017, 1, 123	2 - 1845	81
33	An assessment of pinecone gasification in subcritical, near-critical and supercritical water. <i>Fuel Processing Technology</i> , 2017 , 168, 84-96	7.2	61
32	Development of Dual-Phobic Surfaces: Superamphiphobicity in Air and Oleophobicity Underwater. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6716-6726	8.3	16
31	Subcritical and supercritical water gasification of humic acid as a model compound of humic substances in sewage sludge. <i>Journal of Supercritical Fluids</i> , 2017 , 119, 130-138	4.2	61
30	Ignition of n-propanol∃ir hydrothermal flames during supercritical water oxidation. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 2503-2511	5.9	22
29	Butanol from Renewable Biomass: Highlights of Downstream Processing and Recovery Techniques 2017 , 187-211		6
28	Supercritical water gasification of timothy grass as an energy crop in the presence of alkali carbonate and hydroxide catalysts. <i>Biomass and Bioenergy</i> , 2016 , 95, 378-387	5.3	63
27	Subcritical and supercritical water gasification of lignocellulosic biomass impregnated with nickel nanocatalyst for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 4907-4921	6.7	77
26	Gasification of fruit wastes and agro-food residues in supercritical water. <i>Energy Conversion and Management</i> , 2016 , 110, 296-306	10.6	148
26 25		10.6 3.2	148
	Management, 2016 , 110, 296-306 Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated		, i
25	Management, 2016, 110, 296-306 Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated Carbon and Specialty Materials. Waste and Biomass Valorization, 2016, 7, 201-235 Effect of acidic pretreatment on the chemistry and distribution of lignin in aspen wood and wheat	3.2	182
25 24	Management, 2016, 110, 296-306 Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated Carbon and Specialty Materials. Waste and Biomass Valorization, 2016, 7, 201-235 Effect of acidic pretreatment on the chemistry and distribution of lignin in aspen wood and wheat straw substrates. Biomass and Bioenergy, 2016, 91, 56-68 Valorization of horse manure through catalytic supercritical water gasification. Waste Management,	3.2 5-3	182
25 24 23	Management, 2016, 110, 296-306 Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated Carbon and Specialty Materials. Waste and Biomass Valorization, 2016, 7, 201-235 Effect of acidic pretreatment on the chemistry and distribution of lignin in aspen wood and wheat straw substrates. Biomass and Bioenergy, 2016, 91, 56-68 Valorization of horse manure through catalytic supercritical water gasification. Waste Management, 2016, 52, 147-58 Supercritical water gasification of glycerol and methanol mixtures as model waste residues from	3.25.38.6	182 32 75
25 24 23 22	Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated Carbon and Specialty Materials. Waste and Biomass Valorization, 2016, 7, 201-235 Effect of acidic pretreatment on the chemistry and distribution of lignin in aspen wood and wheat straw substrates. Biomass and Bioenergy, 2016, 91, 56-68 Valorization of horse manure through catalytic supercritical water gasification. Waste Management, 2016, 52, 147-58 Supercritical water gasification of glycerol and methanol mixtures as model waste residues from biodiesel refinery. Chemical Engineering Research and Design, 2016, 113, 17-27 The progressive routes for carbon capture and sequestration. Energy Science and Engineering, 2016,	3.25.38.65.5	182 32 75 45 90
25 24 23 22 21	Biochar as an Exceptional Bioresource for Energy, Agronomy, Carbon Sequestration, Activated Carbon and Specialty Materials. Waste and Biomass Valorization, 2016, 7, 201-235 Effect of acidic pretreatment on the chemistry and distribution of lignin in aspen wood and wheat straw substrates. Biomass and Bioenergy, 2016, 91, 56-68 Valorization of horse manure through catalytic supercritical water gasification. Waste Management, 2016, 52, 147-58 Supercritical water gasification of glycerol and methanol mixtures as model waste residues from biodiesel refinery. Chemical Engineering Research and Design, 2016, 113, 17-27 The progressive routes for carbon capture and sequestration. Energy Science and Engineering, 2016, 4, 99-122 An assessment on the sustainability of lignocellulosic biomass for biorefining. Renewable and	3.2 5.3 8.6 5.5	182 32 75 45

17	Supercritical water gasification of fructose as a model compound for waste fruits and vegetables. Journal of Supercritical Fluids, 2015 , 104, 112-121	4.2	65
16	Ignition of hydrothermal flames. <i>RSC Advances</i> , 2015 , 5, 36404-36422	3.7	36
15	Physico-Chemical Evolution in Lignocellulosic Feedstocks During Hydrothermal Pretreatment and Delignification. <i>Journal of Biobased Materials and Bioenergy</i> , 2015 , 9, 295-308	1.4	23
14	Supercritical water gasification of biomass for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6912-6926	6.7	314
13	Pathways of lignocellulosic biomass conversion to renewable fuels. <i>Biomass Conversion and Biorefinery</i> , 2014 , 4, 157-191	2.3	228
12	Butanol and ethanol production from lignocellulosic feedstock: biomass pretreatment and bioconversion. <i>Energy Science and Engineering</i> , 2014 , 2, 138-148	3.4	74
11	Effects of temperature on the physicochemical characteristics of fast pyrolysis bio-chars derived from Canadian waste biomass. <i>Fuel</i> , 2014 , 125, 90-100	7.1	213
10	Physico-Chemical Properties of Bio-Oils from Pyrolysis of Lignocellulosic Biomass with High and Slow Heating Rate. <i>Energy and Environment Research</i> , 2014 , 4,	1	62
9	Supercritical water gasification of biomass in diamond anvil cells and fluidized beds. <i>Biofuels, Bioproducts and Biorefining</i> , 2014 , 8, 728-737	5.3	29
8	Characteristic Studies on the Pyrolysis Products from Hydrolyzed Canadian Lignocellulosic Feedstocks. <i>Bioenergy Research</i> , 2014 , 7, 174-191	3.1	54
7	Characterization of North American Lignocellulosic Biomass and Biochars in Terms of their Candidacy for Alternate Renewable Fuels. <i>Bioenergy Research</i> , 2013 , 6, 663-677	3.1	224
6	Slow Pyrolysis of Deoiled Canola Meal: Product Yields and Characterization. <i>Energy & amp; Fuels</i> , 2013 , 27, 5268-5279	4.1	41
5	Evaluation of the physiochemical development of biochars obtained from pyrolysis of wheat straw, timothy grass and pinewood: Effects of heating rate. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 104, 485-493	6	167
4	Extraction of sugars and cellulose fibers from Cannabis stems by hydrolysis, pulping and bleaching. Chemical Engineering and Technology,	2	1
3	Pyrolysis of Miscanthus and characterization of value-added bio-oil and biochar products. <i>Canadian Journal of Chemical Engineering</i> ,	2.3	9
2	Catalytic conversion of lignocellulosic polysaccharides to commodity biochemicals: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	15
1	A Review of Biomass Resources and Thermochemical Conversion Technologies. <i>Chemical Engineering and Technology</i> ,	2	4